

Message

From: Gaughan, Daniel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E5825FDF59F04CDB9F5BC64C9E898825-GAUGHAN, DANIEL]
Sent: 1/15/2020 7:04:50 PM
To: Bernard Nwosu [Ben.Nwosu@WestonSolutions.com]; Smita Sumbaly [S.Sumbaly@WestonSolutions.com]
Subject: FW: Canadian Radium Soil Samples
Attachments: Doc-10-gamma spect-Rev8-2018-12-19-lan.pdf; Doc-222-AM SOP 41-rev3-2018-11-09-lan.pdf; Doc-223-NaOH Fusion-rev2-2018-11-09-lan.pdf

Ben and Smita,
Please see the attached SOPS from NAREL.
You have the final version of the data.

Dan Gaughan

From: Hudson, Tonya <hudson.tonya@epa.gov>
Sent: Wednesday, January 15, 2020 1:53 PM
To: Gaughan, Daniel <Gaughan.Daniel@epa.gov>
Cc: White, Cindy <White.Cindy@epa.gov>
Subject: RE: Canadian Radium Soil Samples

Hi Dan,

Attached are the SOPs you requested. Please see the following to determine which SOP corresponds to the method names in the Smita's email:

Isotopic Thorium by Alpha Spectroscopy via **NAREL ACT-02FTH: Doc-222 & Doc-223**
Isotopic Uranium by Alpha Spectroscopy via **NAREL ACT-02F-U: Doc-222 & Doc-223**
Other gamma emitting isotopes by Gamma Spectroscopy via **NAREL GM-01-RA: Doc-10**
Ra-226 and Ra-228 via 21-day ingrowth: **Doc-10**

Please let me know if you need additional information or SOPs,
Tonya

From: Gaughan, Daniel <Gaughan.Daniel@epa.gov>
Sent: Wednesday, January 15, 2020 12:31 PM
To: Hudson, Tonya <hudson.tonya@epa.gov>; White, Cindy <White.Cindy@epa.gov>
Subject: FW: Canadian Radium Soil Samples

Tonya and Cindy,
Sorry for reaching out to you again about this site. Could you please review the email below and provide the SOPs needed so that our data validator can proceed?

Thanks for your assistance.

Dan Gaughan

From: Nwosu, Bernard <Ben.Nwosu@WestonSolutions.com>
Sent: Wednesday, January 15, 2020 11:13 AM

To: Gaughan, Daniel <Gaughan.Daniel@epa.gov>

Subject: FW: Canadian Radium Soil Samples

Dan,

Please can you request from the lab the SOPs utilized for the analyses listed below. Our data validator need the information to complete action on the data package. Also, are we expecting a final data package from the lab, or is the attached information final?

Change the folder extension from .piz to .zip in order to view the content.

Let me know if you have any questions.

Thanks,

Ben Nwosu

Weston Solutions, Inc.
START V | ED2

From: Sumbaly, Smita

Sent: Wednesday, January 15, 2020 10:52 AM

To: Nwosu, Bernard <Ben.Nwosu@WestonSolutions.com>

Subject: RE: Canadian Radium Soil Samples

Ben – Can you please get the lab SOPs for the below analyses?

Isotopic Thorium by Alpha Spectroscopy via **NAREL ACT-02FTH**

Isotopic Uranium by Alpha Spectroscopy via **NAREL ACT-02F-U**

Other gamma emitting isotopes by Gamma Spectroscopy via **NAREL GM-01-RA**

Ra-226 and Ra-228 via 21-day ingrowth.

Smita

Smita Sumbaly
Chemist QA/QC Specialist
Weston Solutions, Inc.
1090 King Georges Post Road
Suite 201, Edison, NJ 08837
Phone: 732-585-4410
Fax: 732-225-7037



From: Nwosu, Bernard

Sent: Wednesday, January 15, 2020 10:06 AM

To: Sumbaly, Smita <S.Sumbaly@WestonSolutions.com>

Subject: Canadian Radium Soil Samples

Smita,

On September 8 and 9, 2019, START V collected a total of 19 soil samples, including one field duplicate, and two rinsate blanks from the Site. All the samples were documented under COC Record No. 2-090919-0032-0030-0001 and shipped via FedEx Airbill No. 7761-9080-7836 to NAREL for analyses including isotopic thorium (Th-227, Th-228, Th-230, Th-232) and isotopic uranium (U-234, U-235, U-238) via alpha spectroscopy, other gamma emitting isotopes (Bi-207, Bi-212, Bi-214, Cs-137, Eu-155, K-40, Pb-210, Pb-212, Pb-214, Ra-226, Ra-228, Th-234, Tl-208, U-235) via gamma spectroscopy, and Ra-226 and Ra-228 via 21-day ingrowth Method. See attached COC.

Let me know if you have any questions.

Thanks,

Ben Nwosu

Weston Solutions, Inc.
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